

REMARKS

Applicant respectfully requests reconsideration of the present application and the consideration of the following remarks.

The title of the application was rejected for being not descriptive. The title of the application is amended as “Methods and Apparatuses for Simultaneous Access by Multiple Remote Devices”.

The embodiments of prior applications by the same inventor of the present application (e.g., U.S. Patent Applications 09/496,172, 09/501,585, 09/504,809, 09/504,808, and 09/504,807, which were filed since February 2, 2000) were mislabeled as “prior art”. These embodiments were prior inventions disclosed in the prior applications of the same inventor. Thus, Figures 2-3 and the corresponding description for these embodiments of prior applications are currently amended to remove the labeling of “prior art”.

Claims 1 and 3-7 were objected to for using “whereby” instead of “wherein”. Further, claims 2-6 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for the lack of antecedent basis for the limitation of “the host computer” in claim 2 and “the portable display device” in claims 3-6. Applicant respectfully submits that the current amendment overcomes the objections and the rejection under 35 U.S.C. 112, second paragraph.

Claim 1 was rejected under 35 U.S.C. 102(b) as being anticipated by Yan (U.S. Patent No. 6,003,065). Claims 2-4 were rejected under 35 U.S.C. 102(e) as being anticipated by Nahi (U.S. Patent No. 6,084,584). Claims 5-6 were rejected under 35 U.S.C. 103(a) as being unpatentable over Nahi. Claim 7 was rejected under 35 U.S.C. 102(a) as being unpatentable over Yan in view of Nahi. Claim 2 is canceled; claims 1

and 3-7 are currently amended; new claims 8-19 are added. Thus, claims 1 and 3-19 are pending.

Applicant respectfully submits that the pending claims are patentable over Yan and Nahi. As illustrated in Figure 4, in one embodiment of the present invention, a host computer (e.g., 21) runs multiple virtual machines (e.g., 23) for multiple remote portable devices (e.g., 26). Each virtual machine runs a web browser (e.g., 24) for the corresponding remote portable device. As illustrated in Figure 4, in one embodiment of the present invention, the host computer (e.g., 21) also runs multiple clients (e.g., 25). The multiple clients communicate with the corresponding multiple virtual machines. The multiple clients and the corresponding multiple virtual machines are all running on the host computer (e.g., 21). The clients running on the host computer generate display images of the corresponding virtual machines. The display images are then sent to the corresponding remote devices for display (e.g., through modem ports 27 and telephone connection, or through internet, see also Figure 8).

For example, amended claim 1 recites:

1. (currently amended) A host computer which contains multiple virtual machines in software, each of the virtual machines containing a web browser, each of the virtual machines communicating with a dedicated client, the dedicated client being in software running on the host computer, the dedicated client converting information received from a corresponding one of the virtual machines into a display image, which is compressed and sent to a port for transmission to a remote portable display device.

Yan teaches distributed data processing in which each of the host and its peripheral devices runs a virtual machine for robust communication between the peripheral devices and the host and for sophisticated peripheral devices management and administration. It is clear that the clients of Yan (peripheral devices) are neither “software running on the

host computer” nor “the dedicated client converting information received from a corresponding one of the virtual machines into a display image”.

Also, claim 8 recites:

8. (new) A method to provide simultaneous remote access, the method comprising:
running multiple virtual machines on a computer system, each of the virtual machines executing an application program; and
running multiple clients on the computer system, each of the clients:
communicating with one of the virtual machines to
generate a display image of the corresponding one of the virtual machines, the display image showing the application program; and
transmitting the display image in a compressed format to a remote device for display.

The arrangement of the virtual machines and clients of Yan are substantially different from the arrangement recited in the claim. Further, the virtual machines and clients of Yan do not perform the operations recited in the claim. Claim 14 recites limitations similar to those in claim 8.

Nahi teaches to use a pseudo display driver which effectively operates to intercept low-level display driver calls from any or all of the operating system execution partitions (Col. 11, lines 63-66, Nahi). The output is passed substantially unaltered to a transceiver driver (Col. 12, lines 1-2, Nahi). A driver call stream is passed to the display tablet through the transceiver (Col. 12, lines 6-10, Nahi). Thus, the host of Nahi does not use multiple virtual machines and multiple clients to generate display images of the corresponding virtual machines.

Claims 3-7, 9-13 and 15-19 depend from claims 1, 8 and 14. Thus, at least for the above reasons, the pending claims are patentable over Yan and Nahi.

Further, claim 3 recites:

3. (currently amended) A host computer as claimed in claim 1, wherein the display area of the portable display device is smaller than the image; according to a location of an area of the image to be displayed on the portable display device, the dedicated client sends the area of the image first and then automatically sends areas surrounding the area of the image.

Nahi does not show a method to transmit a display image in a sequence according to the area that is displayed on a remote portable display device. Note that the image on Col. 10, lines 15-26, of Nahi is an image of a control program. It is understood that such an image of a program refers to the instructions (and related data) for a software program, which is very different from a display image.

Further, claim 4 recites:

4. (currently amended) A host computer as claimed in claim 1, wherein during the transmission of the image to the portable display device, a mouse click or keyboard command from the portable display device is relayed immediately to the dedicated client through the port; the dedicated client communicates with the web browser to send a new image to the portable display device if required, otherwise original activities are resumed.

Nahi does not show the particular arrangement of the transmission of the image and the processing of a mouse click or keyboard command as recited in the claim. In one embodiment of the present invention, the mouse click or keyboard command are related to the host immediately during the transmission of the image rather than until the

transmission is complete, since the processing of the mouse click or keyboard command may or may not cause the transmission of a new image other than the original one. Note that Nahi does not transmit the display image of the virtual machine. Instead, a driver call stream is passed to the display tablet through the transceiver (Col. 12, lines 6-10, Nahi).

Thus, applicant respectfully submits that the pending claims are patentable over Yan and Nahi.

Please charge any shortages or credit any overages to Deposit Account No. 02-2666. Furthermore, if an extension is required, Applicant hereby requests such extension.

Respectfully submitted,

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